Author Index

Alden, T. H., 107
Ankem, S., 51
Armstrong, R. W., 35
Arsenault, R. J., 151

Baker, T. N., 189
Brittain, J. O., 145
Buiocchi, C. J., 177
Butler, Jr., J. F., 95

Chang, E., 201
Chao, C. G., 27
Chapman, G. E., 167
Chudnovsky, A., 85

Elban, W. L., 35

Ferreira, E., 217
Follansbee, P. S., 9
Frantz, C. E., 9

G'Sell, C., 71
Golos, K. M., 63
Gránásy, L., 129
Gray III, G. T., 9
Gücer, D., 163

Hon, M. H., 27
Horie, H., 17
Hu, H., 95

Inoue, Y., 45

Kato, M., 17
King, B. V., 167
Kinikoğlu, N. G., 163
Kujime, T., 155

Lai, J. K. L., 81
Lei, J.-F., 145
Lian, J., 1
Lin, K.-L., 211
Lin, T.-H., 211
Lui, T. S., 27

Maa, J.-S., 177
MacDonald, R. J., 167
Matsuyama, T., 17
McGinn, J. T., 177
Moet, A., 85
Morris, D. G., 115
Morris, M. A., 115
Mostafa, I., 85
Murakami, K., 155

Nishimura, A., 17

Okamoto, T., 155
Okimura, H., 145

Pandey, S. K., 181
Parildar, N., 163
Pereira, H., 217
Pollock, J. T. A., 167

Rauch, E. F., 71

Sato, K., 45
Shyue, J. G., 51
Suryanarayana, C., 181

Tagawa, K., 45
Tu, D., 201

Ubhi, H. S., 189

Vijayshankar, M. N., 51

Wang, S. L., 201
Welsch, G., 85
Wu, B. C., 201

Zhou, D., 1

© Elsevier Sequoia/Printed in The Netherlands

Subject Index

Agglomerates
scanning electron microscopy observations of insulation cork agglomerates, 217
Alloying
microstructural refinement and associated strength of copper alloys obtained by mechanical alloying, 115
Alloys
crack layer analysis of fatigue fracture in a metastable titanium alloy, 85
cyclic deformation behavior of a Cu–1.5mass%Fe alloy with precipitate iron particles, 17
microstructural refinement and associated strength of copper alloys obtained by mechanical alloying, 115
production of rapidly solidified thick deposited layers of Fe–C–Cr alloys by flame spraying, 155
spinodal decomposition and mechanical properties of an austenitic Fe–30wt.%Mn–9wt.%Al–0.9wt.%C alloy, 45
structure and transformation behavior of a rapidly solidified Al–6.4wt.%Hf alloys, 181
Aluminium
coprecipitated zirconia–alumina powders, 211
effect of growth geometry on the structure and phase orientation of Al_3Ni–Al *in situ* composite, 163
enhanced wear resistance in steel by recoil implantation and ion vapour deposition of aluminium films, 167
spinodal decomposition and mechanical properties of an austenitic Fe–30wt.%Mn–9wt.%Al–0.9wt.%C alloy, 45
structure and transformation behavior of a rapidly solidified Al–6.4wt.%Hf alloys, 181
Annealing
deformation and annealing textures of copper deformed in plane strain and by rolling, 95

Carbon
production of rapidly solidified thick deposited layers of Fe–C–Cr alloys by flame spraying, 155
spinodal decomposition and mechanical properties of an austenitic Fe–30wt.%Mn–9wt.%Al–0.9wt.%C alloy, 45
the influence of manganese and silicon on the precipitation of vanadium carbide in steel, 189
Chromium
microstructures, properties and failure analysis of $(ZrO_2$–8wt.%$Y_2O_3)$//((Co, Ni)–Cr–Al–Y) thermal barrier coatings, 201
production of rapidly solidified thick deposited layers of Fe–C–Cr alloys by flame spraying, 155
Cobalt
microstructures, properties and failure analysis of $(ZrO_2$–8wt.%$Y_2O_3)$//((Co, Ni)–Cr–Al–Y) thermal barrier coatings, 201
Composites
effect of growth geometry on the structure and phase orientation of Al_3Ni–Al *in situ* composite, 163
Copper
cyclic deformation behavior of a Cu–1.5mass%Fe alloy with precipitate iron particles, 17
deformation and annealing textures of copper deformed in plane strain and by rolling, 95
effect of residual strain on the substructure development and mechanical response of shock-loaded copper, 9
microstructural refinement and associated strength of copper alloys obtained by mechanical alloying, 115
Coprecipitation
coprecipitated zirconia–alumina powders, 211
Cork
scanning electron microscopy observations of insulation cork agglomerates, 217
Cracking
crack layer analysis of fatigue fracture in a metastable titanium alloy, 85
cracking at hardness micro-indentations in RDX explosive and MgO single crystals, 35
Creep
a simple model for assessing the degradation of creep rupture strength after exposure to high temperatures at low stresses, 81

Decomposition
spinodal decomposition and mechanical properties of an austenitic Fe–30wt.%Mn–9wt.%Al–0.9wt.%C alloy, 45
Deformation
cyclic deformation behavior of a Cu–1.5mass%Fe alloy with precipitate iron particles, 17
deformation and annealing textures of copper deformed in plane strain and by rolling, 95
the effect of volume per cent of phases on the high temperature tensile deformation of two-phase Ti–Mn alloys, 51
Degradation
a simple model for assessing the degradation of creep rupture strength after exposure to high temperatures at low stresses, 81
Deposition
enhanced wear resistance in steel by recoil implantation and ion vapour deposition of aluminium films, 167
Diffusion
cross-sectional transmission electron microscopy study of the structure of titanium diffusion barriers on (100) silicon, 177
Dislocations
a calculation of the yield stress using the methods of dislocation dynamics, 107

Failure
the fatigue criterion with mean stress effect on failure, 63
Fatigue
crack layer analysis of fatigue fracture in a metastable titanium alloy, 85
the fatigue criterion with mean stress effect on failure, 63
Ferrite
effect of microstructure on the tensile flow stress of ferritic compacted graphite cast iron in intermediate temperature ranges, 27

© Elsevier Sequoia/Printed in The Netherlands

Flame spraying
production of rapidly solidified thick deposited layers of Fe–C–Cr alloys by flame spraying, 155
Fracture
crack layer analysis of fatigue fracture in a metastable titanium alloy, 85

Glass ribbons
models for continuous casting of metallic glass ribbons II: the effect of the melt pool on the cross-sectional homogeneity, 129
Graphite
effect of microstructure on the tensile flow stress of ferritic compacted graphite cast iron in intermediate temperature ranges, 27

Hafnium
structure and transformation behavior of a rapidly solidified Al–6.4wt.%Hf alloys, 181
Homogeneity
models for continuous casting of metallic glass ribbons II: the effect of the melt pool on the cross-sectional homogeneity, 129

Insulation
scanning electron microscopy observations of insulation cork agglomerates, 217
Ion vapour deposition
enhanced wear resistance in steel by recoil implantation and ion vapour deposition of aluminium films, 167
Iron
cyclic deformation behavior of a Cu–1.5mass%Fe alloy with precipitate iron particles, 17
effect of microstructure on the tensile flow stress of ferritic compacted graphite cast iron in intermediate temperature ranges, 27
production of rapidly solidified thick deposited layers of Fe–C–Cr alloys by flame spraying, 155
spinodal decomposition and mechanical properties of an austenitic Fe–30wt.%Mn–9wt.%Al–0.9wt.%C alloy, 45

Magnesium
cracking at hardness micro-indentations in RDX explosive and MgO single crystals, 35
Manganese
spinodal decomposition and mechanical properties of an austenitic Fe–30wt.%Mn–9wt.%Al–0.9wt.%C alloy, 45
the effect of volume per cent of phases on the high temperature tensile deformation of two-phase Ti–Mn alloys, 51
the influence of manganese and silicon on the precipitation of vanadium carbide in steel, 189

Necking
diffuse necking and localized necking under plane stress, 1
Nickel
microstructures, properties and failure analysis of $(ZrO_2–8wt.\%Y_2O_3)/((Co, Ni)–Cr–Al–Y)$ thermal barrier coatings, 201
Nitrogen
effect of growth geometry on the structure and phase orientation of Al_3Ni–Al *in situ* composite, 163

Oxygen
coprecipitated zirconia–alumina powders, 211
cracking at hardness micro-indentations in RDX explosive and MgO single crystals, 35
microstructures, properties and failure analysis of $(ZrO_2–8wt.\%Y_2O_3)/((Co, Ni)–Cr–Al–Y)$ thermal barrier coatings, 201

Precipitates
cyclic deformation behavior of a Cu–1.5mass%Fe alloy with precipitate iron particles, 17
Precipitation
the influence of manganese and silicon on the precipitation of vanadium carbide in steel, 189

Rapid solidification
structure and transformation behavior of a rapidly solidified Al–6.4wt.%Hf alloys, 181
RDX
cracking at hardness micro-indentations in RDX explosive and MgO single crystals, 35
Recoil implantation
enhanced wear resistance in steel by recoil implantation and ion vapour deposition of aluminium films, 167
Rolling
deformation and annealing textures of copper deformed in plane strain and by rolling, 95

Shock-loading
effect of residual strain on the substructure development and mechanical response of shock-loaded copper, 9
Silicon
cross-sectional transmission electron microscopy study of the structure of titanium diffusion barriers on (100) silicon, 177
the influence of manganese and silicon on the precipitation of vanadium carbide in steel, 189
Single crystals
cracking at hardness micro-indentations in RDX explosive and MgO single crystals, 35
Steel
enhanced wear resistance in steel by recoil implantation and ion vapour deposition of aluminium films, 167
flow localization induced by a change in strain path in mild steel, 71
the influence of manganese and silicon on the precipitation of vanadium carbide in steel, 189
Strain
deformation and annealing textures of copper deformed in plane strain and by rolling, 95
effect of residual strain on the substructure development and mechanical response of shock-loaded copper, 9
evaluation of some thin film transition metal compounds for high temperature resistance strain gauge application, 145
flow localization induced by a change in strain path in mild steel, 71
Stress
a calculation of the yield stress using the methods of dislocation dynamics, 107
a simple model for assessing the degradation of creep rupture strength after exposure to high temperatures at low stresses, 81

diffuse necking and localized necking under plane stress, 1
effect of microstructure on the tensile flow stress of ferritic compacted graphite cast iron in intermediate temperature ranges, 27
the fatigue criterion with mean stress effect on failure, 63

Thin films
evaluation of some thin film transition metal compounds for high temperature resistance strain gauge application, 145
Titanium
crack layer analysis of fatigue fracture in a metastable titanium alloy, 85
cross-sectional transmission electron microscopy study of the structure of titanium diffusion barriers on (100) silicon, 177
the effect of volume per cent of phases on the high temperature tensile deformation of two-phase Ti–Mn alloys, 51
Transition metals
evaluation of some thin film transition metal compounds for high temperature resistance strain gauge application, 145

Vanadium
the influence of manganese and silicon on the precipitation of vanadium carbide in steel, 189

Wear resistance
enhanced wear resistance in steel by recoil implantation and ion vapour deposition of aluminium films, 167

Yttrium
microstructures, properties and failure analysis of (ZrO_2–8wt.%Y_2O_3)/((Co, Ni)–Cr–Al–Y) thermal barrier coatings, 201

Zirconium
coprecipitated zirconia–alumina powders, 211
microstructures, properties and failure analysis of (ZrO_2–8wt.%Y_2O_3)/((Co, Ni)–Cr–Al–Y) thermal barrier coatings, 201